Fayol Inc. 0547824419

FIRST TERM WEEKLY LESSON NOTES WEEK 3

Week Ending: 20-10-20	023	DAY:		Subject: Science		
Duration: 100mins				Strand: Diversity (Of Matte	er
Class: B9		Class	Size:	Sub Strand: Living	Cells	
Content Standard: B9.1.2.1 Demonstrate knocells of dicotyledonous platformation and functions for plants and humans	ants and humans or the existence	, their	Indicator: B9.1.2.1.1 Discuss the con and how they are formed and humans			Lesson:
Performance Indicator Learners can discuss the formed in dicotyledono	e concepts of s	•	ed cells and how they are	Core Competer DL 5.3: Cl 6.8: DL	ncies: . 5.1: Cl 6	5.6:
References: Science Cu	ırriculum Pg. 9	0		·		
New words: Specialized	l Cells, Dicotyl	edonou	s, Differentiation, Tissues			
Phase/Duration PHASE I: STARTER	Learners Act		professional sports team.		Resou	rces
	an analogy be organisms.	etween s	ch player has a specific role specialized team players and cors and introduce the lesso	specialized cells in		
PHASE 2: NEW LEARNING	what they thi Each group of the board to Explain that of with two leave Discuss how perform cert Examples included the transport. Introduce the divides and ef our body. Give example	an share arrive a dicotyled yes when these plain functions water e concepted the conce	rd cells in the stomata for go transport, and phloem cells of that humans start as a single differentiates into all the very man specialized cells such as t), nerve cells (for transmitt)	recurring ideas on plant that starts the specialized to gas exchange, a for sugar gle cell, which arious cell types in a red blood cells	T recurred	es and Charts

	Hand out clay or play dough to the learners. Ask them to shape the clay into a model of a cell.
	Assessment I. What are specialized cells? 2. Name one specialized cell in dicotyledonous plants and its function. 3. Name one specialized cell in humans and its function.
	4. Why is cell differentiation important in multicellular organisms?
PHASE 3:	Use peer discussion and effective questioning to find out from
REFLECTION	learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Week Ending: 20-10-2	023	DAY:		Subject: Science	
Duration: 100mins		·		Strand: Diversity	Of Matter
Class: B9		Class 9	Size:	Sub Strand: Living	Cells
Content Standard: B9.1.2.1 Demonstrate knows cells of dicotyledonous platformation and functions for plants and humans	ants and humans or the existence	, their	Indicator: B9.1.2.1.2 Examine the fun in dicotyledonous plants su cells, cambium, xylem in re the plants.	ıch as epidermal, gu	ıard
Performance Indicator Learners can identify the plants, such as epiderman	e functions of	•	ed cells in dicotyledonous nbium, and xylem.	Core Competer DL 5.3: Cl 6.8: DL	
References: Science Cu	ırriculum Pg. 9	0			
New words: Epidermal	Cells, Guard C	Cells, Ca	mbium, Xylem		
Phase/Duration PHASE I: STARTER	parts, each w Ask learners working. Use	ture of a rith its spector think this ana	big machine or factory, con pecific function. about what would happen i alogy to introduce the idea t	f one part stops hat plants, like	Resources
PHASE 2: NEW LEARNING	Share learning Play a short work plant cells, pa	ectively. g indicat video clip articularl	alized parts (cells) that ensur fors and introduce the lesson to that gives a close-up view y focusing on epidermal cell	n. of dicotyledonous	Pictures and Charts
	that learners Divide the leather specialize Task each ground	ssion on can ider arners ir ed cell ty oup to g and how	the appearance of each cell ntify each cell by name and a nto four groups, assigning ea	ppearance. ch group one of nctions of their Il existence of the	
			from water loss, mechaninfections. Regulation: Epidermal corregulate gas exchange ar	nical injury, and	

	transpiration through tiny pores called stomata.
	Secretion: Some epidermal cells secrete a waxy layer called the cuticle which acts as a water-resistant barrier, further preventing excessive water loss.
Guard Cells	 Regulation of Stomatal Opening: Guard cells surround each stoma (plural: stomata) on plant leaves and regulate their opening and closing. Control of Gas Exchange: By adjusting the size of the stomatal pores, guard cells control the exchange of gases (like carbon dioxide and oxygen) between the plant leaves and the environment. Water Regulation: The opening and closing of stomata also play a critical role in regulating water vapor loss (transpiration) from the plant.
Cambium	Cell Production: The cambium is a type of meristem, and its primary function is cell production. It is responsible for producing new cells which can become part of the xylem, phloem, or more cambium.
	 Support and Growth: As the cambium produces cells, it contributes to the thickness (secondary growth) of stems and roots, strengthening the plant and allowing it to transport more nutrients and water.
Xylem	Water and Nutrient Transport: Xylem's primary function is to transport water and dissolved nutrients from the roots to various parts of the plant.
	Support: Xylem cells, once matured, become lignified (filled with lignin), which strengthens the cell walls and provides support to the plant.
	Storage: Some xylem cells can also be involved in storing nutrients and water.

After research, each group should prepare a short presentation to share with the class.

Facilitate a class discussion on the importance of each cell type in the overall health and survival of dicotyledonous plants.

<u>Assessment</u>

- 1. What is the main function of guard cells in dicotyledonous plants?
- 2. Why are epidermal cells important for a plant?

	3. How does the cambium contribute to a plant's growth?	
	4. Describe the role of xylem in dicotyledonous plants.	
PHASE 3:	Use peer discussion and effective questioning to find out from	
REFLECTION	learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	